

Contents

Marine Chemistry, Vol. 22 (1987)

Research Papers

Mechanistic study of interactions between photo-oxidation and biodegradation of n-nonylbenzene in seawater J.F. Rontani, P. Bonin and G. Giusti (Marseille, France)	1
Composition and bacterial utilization of free amino acids in tropical mangrove sediments S.O. Stanley (Argyll, Gt. Britain), K.G. Boto, D.M. Alongi and F.T. Gillan (Townsville, Australia)	13
Metal release from particulate oil ash in seawater V.T. Breslin and I.W. Duedall (Melbourne, FL, U.S.A.)	31
A new method for the rapid measurement of ^{224}Ra in natural waters Rama, J.F. Todd, J.L. Butts and W.S. Moore (Columbia, SC, U.S.A.)	43
Analysis and distribution of iron sulfide minerals in recent anoxic marine sediments J.W. Morse and J.C. Cornwell (College Station, TX, U.S.A.)	55
The influence of seagrass beds on carbonate sediments in the Bahamas J.W. Morse, J.J. Zullig (College Station, TX, U.S.A.), R.L. Iverson, G.R. Choppin (Tallahassee, FL, U.S.A.), A. Mucci, (Montreal, Canada) and F.J. Millero (Miami, FL, U.S.A.)	71
Photo-oxidation products of fossil fuel components in the water of Hamilton Harbour, Bermuda M. Ehrhardt (Kiel, F.R.G.)	85
Tungsten in north Pacific waters Y. Sohrin, K. Ishiki and T. Kuwamoto (Kyoto, Japan)	95
Obituary	105
Editorial	I

Research Papers

Planning for quality data J.K. Taylor (Gaithersburg, MD, U.S.A.)	109
Heavy metal analyses in the marine environment — approaches to quality control E.D. Goldberg (La Jolla, CA, U.S.A.)	117
Dissolved Cd behaviour in some selected French and Chinese estuaries. Consequences on Cd supply to the ocean F. Elbaz-Poulichet, J.M. Martin (Montrouge, France), W.W. Huang and J.X. Zhu (Qingdao, People's Republic of China)	125
Review of data on eolian fluxes of industrial and natural lead to the lands and seas in remote regions on a global scale C.C. Patterson and D.M. Settle (Pasadena, CA, U.S.A.)	137
Accuracy and precision of lead isotopic composition measurements in seawater A.R. Flegal (Santa Cruz, CA, U.S.A.) and V.J. Stukas (Sidney, B.C., Canada)	163
The effect of ionic interaction on the rates of oxidation in natural waters F.J. Millero, M. Izaguirre and V.K. Sharma (Miami, FL, U.S.A.)	179
The characterization of iron sulfide minerals in anoxic marine sediments J.C. Cornwell and J.W. Morse (College Station, TX, U.S.A.)	193
Trace metals in selected organisms from the Adriatic Sea D. Martincić, Ž. Kwokal, M. Branica (Zagreb, Yugoslavia) and M. Stoeppeler (Jülich, F.R.G.)	207

Influence of sedimentological features on the distribution of trace metals in marine sediments	
G. Cauwet (Perpignan, France)	221
Metal pollution assessment of the marine environment by determination of metal-binding proteins in <i>Mytilus</i> sp.	
J. Pavičić, M. Škreblić, B. Raspor, M. Branica (Zagreb, Yugoslavia), M. Tušek-Žnidarić, I. Kregar and P. Stegnar (Ljubljana, Yugoslavia)	235
On the effectiveness of the ocean's biological pump in global CO ₂ scenarios	
K. Wagener and A. de Luca Rebello (Rio de Janeiro, Brazil).	249
Organic matter and surface properties of solid particles in the estuarine mixing zone	
J. Jednačak-Biščan and M. Juračić (Zagreb, Yugoslavia)	257
Element-specific detectors for liquid chromatography: the determination of arsenic compounds	
K.J. Irgolic and R.A. Stockton (College Station, TX, U.S.A.).	265
Heavy metal distribution in recent sediments of the Krka River Estuary — an example of sequential extraction analysis	
E. Prohić and G. Kniewald (Zagreb, Yugoslavia)	279
Effect of sample pretreatment on the reliability of solid speciation data of heavy metals — implications for the study of early diagenetic processes	
M. Kersten and U. Förstner (Hamburg, F.R.G.).	299
Sequential extraction techniques: promises and problems	
J.M. Martin, P. Nirel and A.J. Thomas (Montrouge, France).	313
Marine sampling by scuba diving. 3. Sampling procedures for measurement of mercury concentrations in estuarine waters and seawater	
G. Kniewald, Ž. Kwokal (Zagreb, Yugoslavia) and M. Branica (Jülich, F.R.G.)	343
An in situ pump sampler for trace materials in seawater	
B.D. Johnson, P.J. Wangersky and X. Zhou (Halifax, N.S., U.S.A.)	353
Direct determination of surface active substances in natural waters	
B. Cosović and V. Vojvodić (Zagreb, Yugoslavia)	363
Announcement.	375
Erratum.	375

